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Practitioner's Docket No. 6996

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application
 Assistant Commissioner for Patents
 Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor: James V. Young

For (title): MESSAGE APPARATUS

1. Type of Application

This transmittal is for an original (nonprovisional) application.

2. Papers Enclosed

A. Required for filing date under 37 C.F.R. 1.53(b) (Regular) or 37 C.F.R. 1.153 (Design) Application

11 Page(s) of Specification
 3 Page(s) of Claims
 5 Sheet(s) of Drawing(s)—Formal

B. Other Papers Enclosed

CERTIFICATION UNDER 37 C.F.R. 1.10*

(Express Mail label number is **mandatory**.)
 (Express Mail certification is optional.)

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited with the United States Postal Service on this date October 22, 1998, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EL206122855US, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Lionel L. Lucchesi
 Lionel L. Lucchesi, Reg. No. 25,891

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1 Page(s) of Abstract

3. Additional Papers Enclosed

4. Declaration or Oath

Enclosed Executed by: inventor.

5. Inventorship Statement

The inventorship for all the claims in this application is the same.

6. Language

English

7. Fee Calculation (37 C.F.R. 1.16)

Regular Application

CLAIMS AS FILED					
Claims	Number Filed	Basic Fee Allowance	Number Extra	Rate	Basic Fee 37 CFR 1.16(a) \$790.00
Total Claims (37 CFR 1.16(c))	20	- 20 =	0 x	\$22.00	\$0.00
Independent Claims (37 CFR 1.16(b))	3	- 3 =	0 x	\$82.00	\$0.00
Multiple Dependent Claim(s), if any (37 CFR 1.16(d))			+		

Filing Fee Calculation \$790.00

8. Small Entity Statement(s)

This filing is by a small entity under 37 CFR 1.9 and 1.27 attached.

Filing Fee Calculation (50% of above) \$395.00

9. Fee Payment Being Made at This Time

Enclosed

Filing Fee	\$395.00
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Total Fees Enclosed	\$395.00
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10. Method of Payment of Fees

Check in the amount of \$ 395.00 is attached.

11. Authorization to Charge Additional Fees

The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No. 16-2201.

12. Instructions as to Overpayment

Credit Account No. 16-2201.



SIGNATURE OF PRACTITIONER

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Customer No.: 01688

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SPECIFICATION

To All Whom It May Concern:

Be It Known That I, James V. Young a citizen of the United States, resident of University City, State of Missouri, whose post office address is 7206 Princeton Place, University City, Missouri 63130, have invented new and useful improvements in

MESSAGE APPARATUS

09163-939260

CROSS-REFERENCE TO RELATED APPLICATIONS

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

Not Applicable.

BACKGROUND OF THE INVENTION

This invention relates to a massage apparatus for massaging the human body. While the invention is described with particular reference to that application, those skilled in the art will recognize the wider applicability of the invented principles disclosed hereinafter.

Massage apparatus and techniques employed by various types of massage machines are well known in the art. For example, United States Patents No. 4,098,226 ('226), 4,102,334 ('334) and 4,757,806 ('806) all disclose apparatus designed to produce percussive directional stroking, generally for medical purposes such as to loosen and mobilize, in selected directions, bronchial secretions or other congested materials in humans or animals, to improve blood circulation, and to relax muscles, for example.

Other various massage techniques also are known, which generally involve subjecting the patient to pressure, and/or displacements, and/or pinchings. In particular, it is known that cellulite formations can be controlled by body massage. Various types of equipment have been proposed previously to facilitate a masseur's work. It also has been found that a massage technique, sometimes referred to as "rolled palpation massaging" can be used for the treatment of cutaneous and cellulite in dermalogic zones. This technique involves subjecting the patient to continuous action during which the masseuse

must effect, simultaneously, not only a localized pinching, but also a progressive displacement of the pinch zone so as to provide a “roll” while at the same time exerting pressure. A device for providing roll palpitation is disclosed, for example, United States Patent No. 4,729,368 (‘368). In general, the device described in the ‘368 patent, involves a use of a roller structure and a vacuum source. The vacuum source draws the skin up between the rollers and the rollers apply force to the skin as it is drawn upwardly and held between the rollers by the vacuum source.

While all of these devices work well for their intended purpose, they either are cumbersome in application, and/or have a complex mechanical structure for example, as described in the ‘368 patent, or do not provide the kind of treatment that is effective for proper treatment of fat clusters and stretching the fibrous tissue. The invention described hereinafter combines mechanical oscillation, vibration and suction in a new manner, the combination of which acts in a superior way to break up fat clusters and stretch fibrous tissues by means of a combined oscillatory or vibratory massage and strong localized suction. The massage action of the invention raises the skin and brings encapsulated fluids to the surface. This physical combination stretches or elongates fibrous bands and increases circulation to the target area. The result is improved skin toning, improved elasticity and, by moving the fibers and fluids, it helps change the shape of fat compartments in the human body. The technique is non-evasive, and helps reduce dimpling and “orange-peel” textures appearance of the skin typical with cellulite formations.

BRIEF SUMMARY OF THE INVENTION

One of the objects of the invention is to provide an improved massage therapy apparatus.

Another object of this invention is to provide a massage apparatus that combines mechanical oscillation or vibration and suction to help break up fat clusters and stretch fibrous tissue .

Another object of this invention is to provide massage apparatus which provides both a pressure and suction during massage therapy.

Yet another object of this invention to provide a massage device which is selectively operable to provide a force combination of mechanical oscillation and suction.

Another object to this invention is to provide a compact massage apparatus having simplified construction.

Other objects of the invention will be apparent to those skilled in the art in light of the following description and accompanying drawings.

In accordance with this invention, generally stated, a massage apparatus for massaging a human body, for example, includes a housing containing a motor. A drive cable is operatively connected to the motor, the drive cable having a massage head attached to it, enabling the motor to drive the massage head. The motor imports mechanical oscillations to the massage head. An applicator is mounted to the massage head and transfers mechanical oscillations to the body. The applicator head is specifically designed to provide a cavity, which permits skin to be drawing inwardly of

the cavity during device operation. A vacuum pump is associated with the housing and is connected to the applicator to impart at least a partial vacuum in the applicator.

A method of treating the human body to break up fat clusters and stretch fibrous tissue is provided which applies a vibratory force and a suction force simultaneously to the body, the suction force drawing and stretching fibrous tissue and the vibratory force acting on the raised tissue.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

In the drawings, Figure 1 is a view in side elevation of one illustrative body of massage apparatus of the present invention;

Figure 2 is a bottom plan view thereof;

Figure 3 is a top plan view thereof;

Figure 4 is an end view of the device shown in Figure 1;

Figure 5 is a plan view of a first illustrative applicator used in conjunction with the apparatus of Figure 1;

Figure 6 is a sectional view taken along the lines 6-6 of Figure 5;

Figure 7 is a plan view of a second illustrative applicator by an application with the apparatus of Figure 1;

Figure 8 is a sectional view taken along line 8-8 of Figure 7, but rotated 180° with respect to Figure 7;

Figure 9 is a diagrammatic view of the vacuum system employable with the apparatus of Figure 1; and

Figure 10 is a diagrammatic sectional view illustrating the placement of the certain mechanical components of the massage apparatus shown in Figure 1.

Corresponding reference numerals are used throughout the several figures of the drawings.

DETAILED DESCRIPTION OF THE INVENTION

Referring now to the drawings, reference numeral 1 indicates one illustrative embodiment of massage apparatus of the present invention. The apparatus 1 includes a housing 3 which contains and protects certain mechanical components of the apparatus 1, as later described. The housing 3 includes a first side wall 5, a second side wall 7, a back 9, a bottom wall 10 and a top wall 11. In the embodiment illustrated, the housing 3 has a two piece, cam shell design silhouette construction which facilitates construction of the housing 3 and the placement of components within the housing. Other housing 3 design silhouettes are compatible with the broader aspects of the invention.

The housing 3 has a hook structure 13 associated with it. The hook 13 is intended to retain a massage head 15 in a conventional way. Other structures for holding the massage head 15 may be employed, if desired.

Referring now to Figure 10, an electric motor 17 is mounted within the housing 3. Mounting is accomplished in any convenient way. The motor 17 preferably is a variable speed motor, in that the speed of rotation of the motor may be altered at will by a user. Such motors 17 may be selected from a group including conventional DC motors, switch reluctance motors, electronically controlled motors, or a controlled induction motors. All such motor types are compatible with the broader aspects of the invention, it being

preferred only that the motor 17 be of a variable speed design. The motor 17 drives a transmission line 19. The transmission line 19 in turn is operatively connected to the massage head 15. The particular operation of the motor 17, transmission line 19 and massage head 15 is described in the above referenced patent Nos. 4,102,334, 4,098,266 and 4,757,806, the disclosures of which are incorporated herein by reference, and is not repeated here for sake of brevity.

A vacuum pump 21 also is mounted in the housing 3. Vacuum pump 21 has a suction line 23 and a discharge line 24 respectively connected to its suction side 25 and its discharge side 26.

The housing 3 also has a mounting bracket 30 attached to it, along the back wall 9. In the embodiment illustrated, the bracket 30 is sized to accept a pair of collection vial filters 33 and 34. The vials or filters 33 and 34 are mounted to the bracket 30 in any convenient way. Conventional preformed mating screw tops and vial structures work well, for example. Other attachment techniques are compatible with the broader aspect of my invention.

Any one of a variety of applicators 40 are attached to the massage head 15. Two illustrative embodiments of massage heads 40 are shown in Figures 5-8. Commonly, the applicator 40 are attached to the head 15 by a conventional threaded mounting structure. Other mounting arrangements will be apparent to those skilled in the art.

Referring more specifically now to Figures 5 and 6, a base area 43 of applicator 40 has a threaded first end 44 and a second end 45, interconnected by a body part 46. Body part 46 is an elongated, cylindrical structure defining an axial passage 48, closed at

its respective ends by the base area 43 and the massage tip 53. The threaded end 44 is intended to permit the mounting of the applicator 40 to the massage head 15 in a conventional manner. The body 46 has a connection tube 50 formed in it, which communicates with the passage 48. The connection tube 50 is sized to permit the ready connection and disconnection of a suction line 51. The end 45 of applicator 40 has the massage tip 53 associated with it. The massage tip 53 is constructed from relatively soft, pliable material and is designed to form an axially inwardly extending cavity 55 along the end 45 of the applicator 40. The cavity 55 has an opening 56 formed in it, which permits the cavity 55 to communicate with the connection tube 50 through the passage 48 of the body 46, as diagrammatically indicated in Fig. 6.

Figures 7 and 8 represent the second illustrative body of the applicator 40. Like primed numerals are utilized where appropriate.

Again, an applicator 40' shown in Figure 8 includes a base 43' having a threaded end 44' and a massage end 45'. The threaded end 44' of the base 43' permits the applicator 40' to be easily attached to and removed from the massage head 15.

The end 45' of the applicator 40' also is constructed from a relatively soft, pliable material. The end 45' has an axially inwardly extending cavity 55' formed in it, defined by a concave wall 54. The wall 54 has a pair of openings 56' and 56'' formed in it, which permit the cavity 55' to communicate with the tube 50, as diagrammatically indicated in Fig. 8. The tube 50 is the embodiment of Figure 8 in integrally formed with an end wall 52 formed along the base area 53. As will be appreciated by those skilled in the art, size shape and design of the applicators 40 may vary in other embodiments of my

invention. Each of the applicators 40 have in common the ability to transfer an oscillatory or vibratory force to a portion of the body, the body portion skin being drawn inwardly of the cavities 55, 55' formed along the massage tip 53, 53' of the respective applicators.

The vacuum suction line 51 is connected between the tube 50, and the vial or filter 33. In the embodiment illustrated, the vacuum line 51 runs along the transmission line 19 and is attached to the transmission line by any convenient method. Conventional tie devices may be used, for example, if desired.

Referring now to Figure 3, it may be observed that the line 51 has a bowed section 60 from in it, which terminates along quick connect end 65. The quick connect 65 is relatively simple to insert onto the tube 50 of the respective applicators. The bowed section 60 defines a clearance area for a handle part 67 of the massage head 15, permitting a user to hold the head 15 in a convenient manner without interfering with line 51 operation. The line 51 extends back to and through the housing 3, to an input 70 of the vial 33. The vial 33 has a cross over line 71 connection to the vial 33 a second vial 34. The vial 34 has a output 73 connected to the suction line 23 of the pump 21.

The top wall 11 of the housing 3 has the controls for the massage apparatus 1 associated with it. The controls include a speed control knob 80, an indicator lamp 81 and a vacuum pump switch 82. A power cord 90 includes a suitable strain relief 91 and connects the pump and motor to a source of electrical energy, through the knob 80 and switch 82, which in part define a control system for the apparatus 1.

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The operation of the apparatus 1 is relatively simple to understand. The control 80 has an off position and a plurality of motor speed positions which may be adjusted by the user. Operation of the apparatus 1 in this manner is generally similar to that described in the above referenced patents '226, '334 and '806 in that a vibratory directional stroking motion is imparted through the transmission line 19 to the massage head 15. One of a variety of suitable applicators (40, 40') is attached to the massage head 15 and the quick connect 65 is attached to the tube 50 connection. It is a feature of the invention that the massage apparatus can provide normal massage, and with activation of the pump 21, can be used to draw skin into the cavities 53, 53' while simultaneously providing a mechanical vibration or oscillation on the skin. The different shapes and diameters of applicators are used to apply therapy to different body locations.

As will be appreciated by those skilled in the art, a lotion is frequently used to help glide the applicator across the skin's surface. With the vacuum pump actuated, the vacuum line will draw excess lotion through the applicator and the line 51 into the vial 33. The vial 33 is intended to capture the lotion while the vial 34 captures dust and lint that can accumulate in the vacuum chamber of the pump. The vials, as described above, are removable for easy cleaning. The vial filtering also helps reduce contamination and prolong the life of the rubber diaphragm in the pump.

During treatment, the skin surface at the location of the applicator is drawn into the concave section of the applicator, where the skin is also slightly compressed. The suction and combination with compression and vibration helps break up the fat clusters, elongates fibrous spans and increases circulation of the target area, increasing waste by-

products that are removed by the body's natural waste removal system. As indicated, both the suction and vibratory function can be used independently or in combination. The applicators are attached to head 15 in the manner indicated and can be easily removed.

The forgoing detailed description illustrates the invention by way of example and not by way of limitation. This description will clearly enable one skilled in the art to make and use the invention, and describes several embodiments, adaptations, variations, alternatives and uses of the invention, including what I presently believe is the best mode of carrying out the invention.

Numerous variations, within the scope of the appended claims, will be apparent to those skilled in the art in light of the foregoing description and accompanying drawings. Merely by way of example, the applicator designs can vary in other embodiments of the invention. While the preferred embodiment has what has been described as a claim shell construction, other design silhouettes may be employed. Various features of the invention which were designed for aesthetic appearances may be changes in other embodiments of the invention. These variations are merely illustrative.

Having thus described the invention, what is claimed and described to be secured by Letters Patent is:

CLAIMS:

1. A message apparatus for massaging a human body, comprising:
 - a housing;
 - a motor associated with said housing;
 - a drive cable operatively connected to said motor;
 - a message head driven by said motor through said cable, said motor imparting mechanical oscillations to said message head;
 - an applicator mounted to said message head for transferring the mechanical oscillations to the body, said applicator head further having a cavity formed in it for permitting skin to be drawn inwardly of it;
 - a vacuum pump associated with said housing; and
 - a connection between said vacuum pump and one of said head and said applicator to impart at least a partial vacuum in the cavity of the applicator so that placement of the head on a human body results in the application of a force combination of mechanical oscillation and suction.
2. A message apparatus of claim 1 further including a speed control associated with said housing for controlling the speed of the motor.
3. The message apparatus of claim 1 further including at least one collection vile operatively associated with the vacuum line for removing contaminants in the vacuum line.
4. The apparatus of claim 3 further including a second vile for collecting air born containment's operatively associated in said vacuum line.

5. The apparatus of claim 4 wherein said valves are removably mounted to the apparatus.

6. The apparatus of claim 1 further including a control device to permit suction and vibration to be used independently of one another.

7. The apparatus of claim 6 wherein said applicator is removably mounted to said massage head.

8. The apparatus of claim 7 wherein said vacuum connection is carried by the power cable.

9. The apparatus of claim 8 wherein said vacuum connection is attached as an applicator by quick connect device.

10. The method of treating the human body to break up fat clusters and stretch fibrous tissue comprising:

applying vibratory force to the body through a massage apparatus;

applying a suction force selectively simultaneously with a vibratory force, the suction force drawing and stretching fibrous tissue in combination with the vibratory force to raise the skin and bring encapsulated fluids to the surface of the body.

11. The method of claim 10 further including the step of applying lotion to the body.

12. The method of claim 11 further including the step of removing access lotion through the massage apparatus.

13. The method of claim 12 wherein the vibratory force and section are selectively applicable alone or in combination with one another.

14. A method of claim 14 wherein the vibratory force is adjustable.

15. A therapy massage device comprising:

a housing;

a motor mounted to the housing;

a vacuum pump mounted to the housing;

a drive cable operatively connected to the motor;

a massage head operatively drive by the cable;

an applicator head mounted to the massage head;

a vacuum line connected between the applicator head and the vacuum pump; and

a control system mounted to the housing which is selectively operated to provide suction and vibration to the body through the applicator head.

16. The device of claim 15 wherein said control system includes a control for varying the speed of the motor.

17. The device of claim 16 further including at least one filter operatively associated with the vacuum line 51.

18. The device of claim 17 wherein said filter is removably mounted from the device.

19. The device of claim 18 further including a second filter operatively associated with the vacuum line.

20. The device of claim 19 wherein said first and second filters are replaceable.

Variable	Mean	SD	Min	Max
Age	34.5	10.2	18	65
Gender	Male	Female		
Marital Status	Married	Single		
Education	High School	College		
Occupation	Manager	Worker		
Income	\$20,000	\$30,000		
Health Status	Good	Fair		
Stress Level	Low	High		
Life Satisfaction	High	Low		
Work-Life Balance	Good	Poor		
Family Support	Strong	Weak		
Community Involvement	Active	Passive		
Religious Beliefs	Religious	Secular		
Political Views	Conservative	Liberal		
Environmental Concern	High	Low		
Technology Use	Frequent	Infrequent		
Travel Frequency	Often	Rarely		
Exercise Habits	Regular	Irregular		
Dietary Preferences	Vegetarian	Non-Vegetarian		
Substance Use	None	Occasional		
Artistic Interests	High	Low		
Music Preferences	Classical	Pop		
Reading Habits	Frequent	Infrequent		
Gardening Interests	High	Low		
Volunteering	Often	Rarely		
Charitable Giving	High	Low		
Philanthropy	Active	Passive		
Environmental Action	Active	Passive		
Political Participation	Active	Passive		
Community Engagement	High	Low		
Neighborhood Safety	High	Low		
Local Government	Supportive	Oppositional		
Public Services	Satisfied	Dissatisfied		
Infrastructure	Good	Poor		
Public Transportation	Used	Not Used		
Local Businesses	Supportive	Oppositional		
Neighborhood Development	Active	Passive		
Local Events	Attended	Not Attended		
Community Meetings	Attended	Not Attended		
Local Organizations	Joined	Not Joined		
Neighborhood Watch	Active	Passive		
Local Police	Satisfied	Dissatisfied		
Fire Department	Satisfied	Dissatisfied		
Public Works	Satisfied	Dissatisfied		
Local Schools	Satisfied	Dissatisfied		
Healthcare Services	Satisfied	Dissatisfied		
Public Safety	High	Low		
Neighborhood Quality	High	Low		
Local Amenities	High	Low		
Public Spaces	Good	Poor		
Local Parks	Good	Poor		
Recreational Facilities	Good	Poor		
Local Culture	Rich	Poor		
Neighborhood History	Rich	Poor		
Local Landmarks	Rich	Poor		
Neighborhood Character	Rich	Poor		
Local Identity	Strong	Weak		
Neighborhood Pride	High	Low		
Local Belonging	High	Low		
Neighborhood Connection	High	Low		
Local Engagement	High	Low		
Neighborhood Involvement	High	Low		
Local Participation	High	Low		
Neighborhood Action	High	Low		
Local Impact	High	Low		
Neighborhood Change	High	Low		
Local Progress	High	Low		
Neighborhood Future	Optimistic	Pessimistic		
Local Hope	High	Low		
Neighborhood Vision	Clear	Fuzzy		
Local Goals	Clear	Fuzzy		
Neighborhood Plans	Clear	Fuzzy		
Local Actions	Clear	Fuzzy		
Neighborhood Results	Clear	Fuzzy		
Local Outcomes	Clear	Fuzzy		
Neighborhood Success	High	Low		
Local Achievement	High	Low		
Neighborhood Progress	High	Low		
Local Development	High	Low		
Neighborhood Growth	High	Low		
Local Expansion	High	Low		
Neighborhood Reach	High	Low		
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Local Authority	High	Low		
Neighborhood Leadership	High	Low		
Local Visionaries	High	Low		
Neighborhood Leaders	High	Low		
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Local Dreamers	High	Low		
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Local Optimists	High	Low		
Neighborhood Positivists	High	Low		

Variable	Mean	SD	Min	Max
Age	34.5	10.2	18	65
Gender	Male	Female		
Marital Status	Married	Single		
Education	High School	College		
Occupation	Manager	Worker		
Income	\$20,000	\$30,000		
Health Status	Good	Fair		
Stress Level	Low	High		
Life Satisfaction	High	Low		
Work-Life Balance	Good	Poor		
Family Support	Strong	Weak		
Community Involvement	Active	Passive		
Religious Beliefs	Religious	Secular		
Political Views	Conservative	Liberal		
Environmental Concern	High	Low		
Technology Use	Frequent	Infrequent		
Travel Frequency	Often	Rarely		
Exercise Habits	Regular	Irregular		
Dietary Preferences	Vegetarian	Non-Vegetarian		
Substance Use	None	Occasional		
Artistic Interests	High	Low		
Music Preferences	Classical	Pop		
Reading Habits	Frequent	Infrequent		
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Local Businesses	Supportive	Oppositional		
Neighborhood Development	Active	Passive		
Local Events	Attended	Not Attended		
Community Meetings	Attended	Not Attended		
Local Organizations	Joined	Not Joined		
Neighborhood Watch	Active	Passive		
Local Police	Satisfied	Dissatisfied		
Fire Department	Satisfied	Dissatisfied		
Public Works	Satisfied	Dissatisfied		
Local Schools	Satisfied	Dissatisfied		
Healthcare Services	Satisfied	Dissatisfied		
Public Safety	High	Low		
Neighborhood Quality	High	Low		
Local Amenities	High	Low		
Public Spaces	Good	Poor		
Local Parks	Good	Poor		
Recreational Facilities	Good	Poor		
Local Culture	Rich	Poor		
Neighborhood History	Rich	Poor		
Local Landmarks	Rich	Poor		
Neighborhood Character	Rich	Poor		
Local Identity	Strong	Weak		
Neighborhood Pride	High	Low		
Local Belonging	High	Low		
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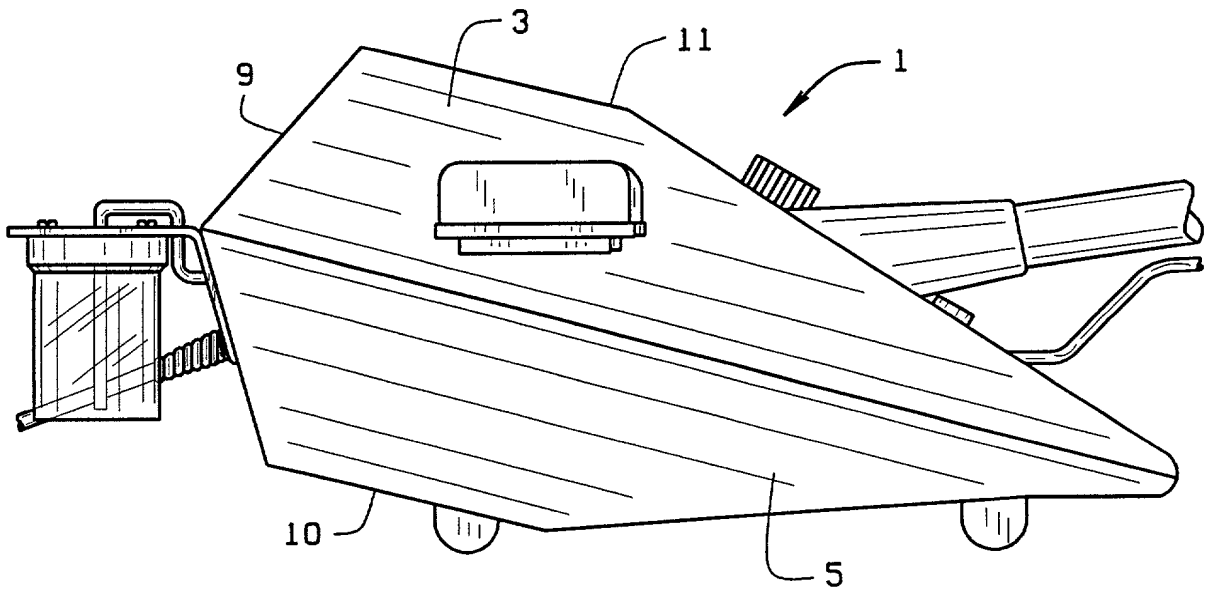


FIG. 1

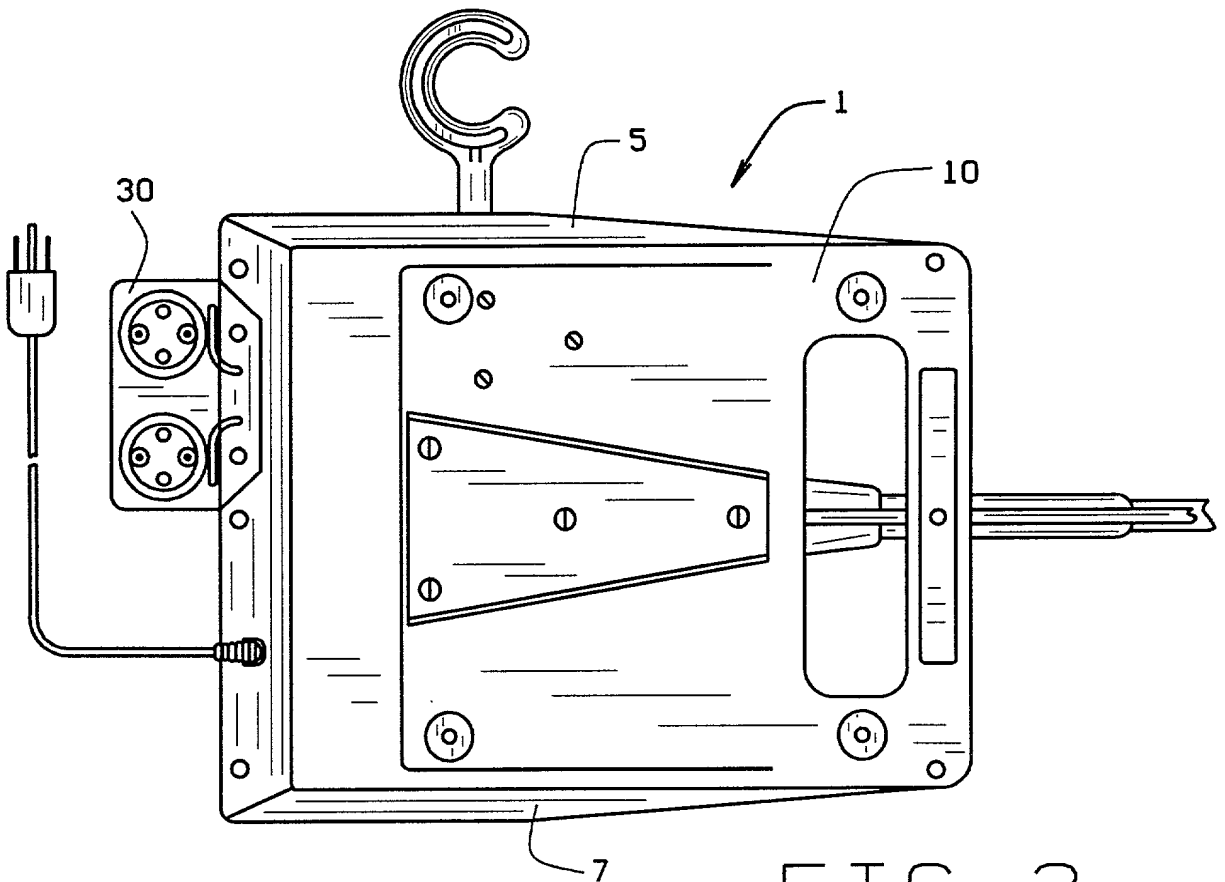


FIG. 2

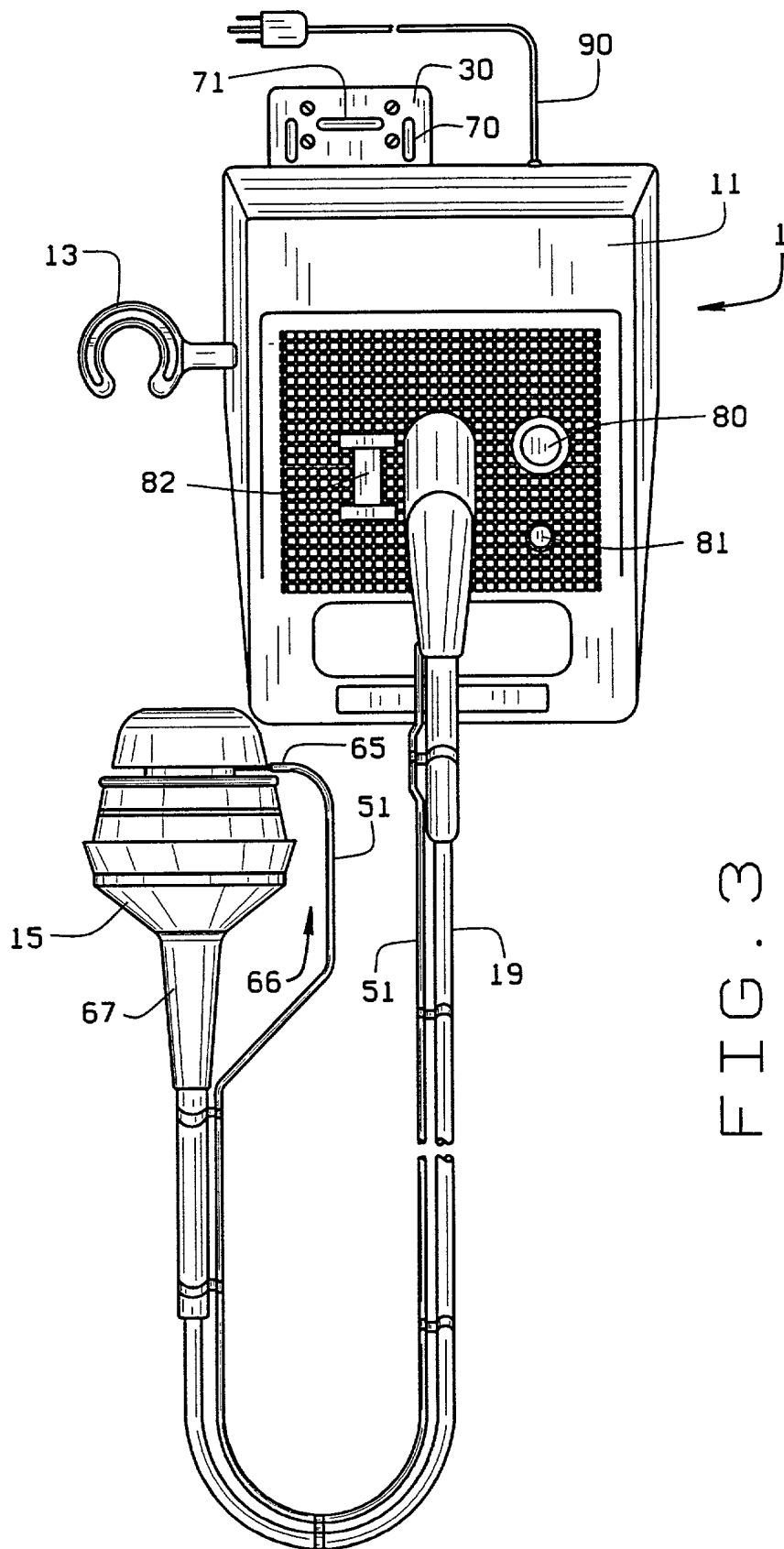


FIG. 3

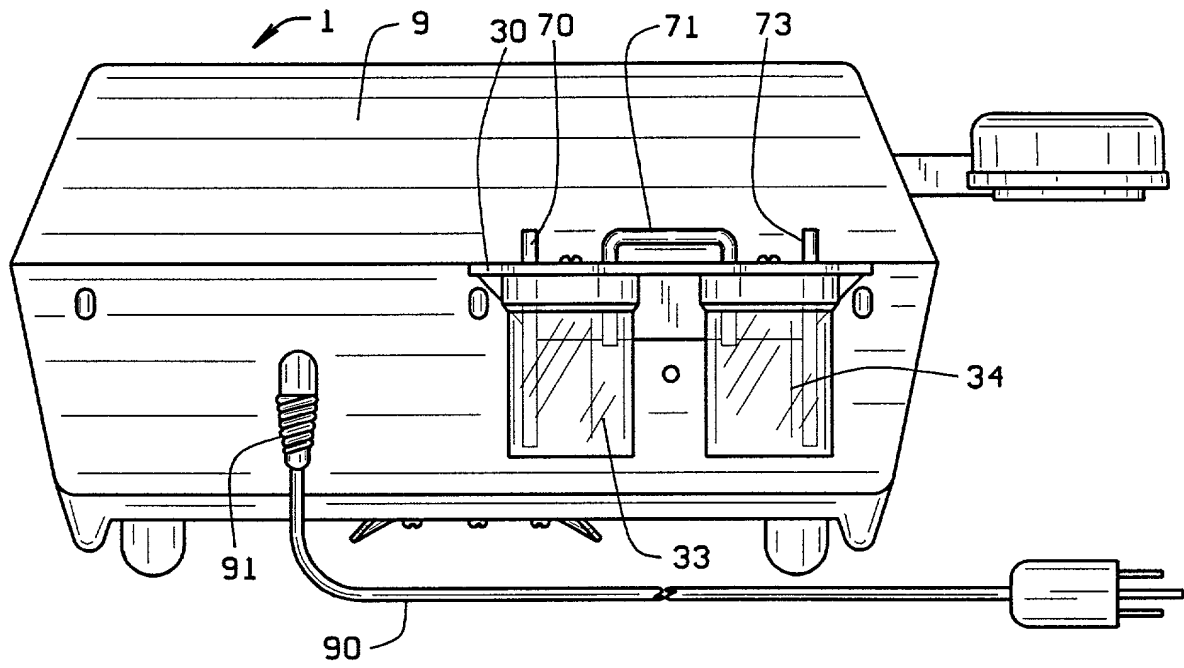


FIG. 4

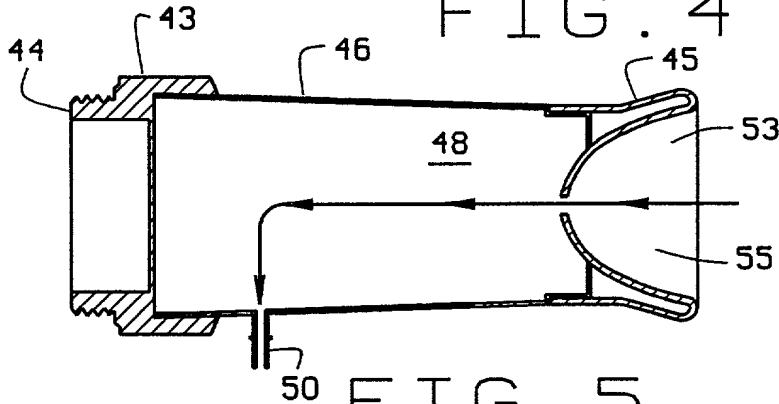


FIG. 5

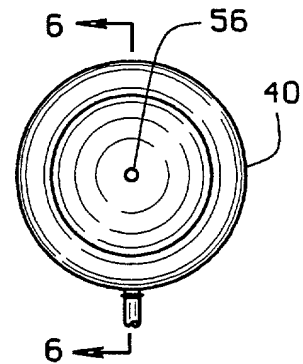


FIG. 6

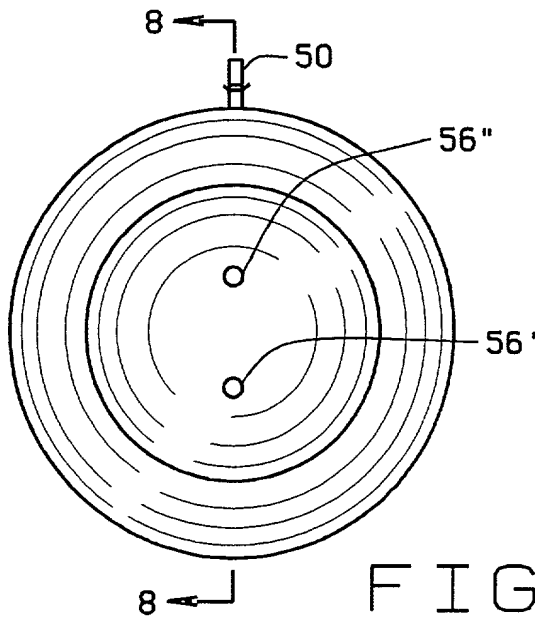


FIG. 7

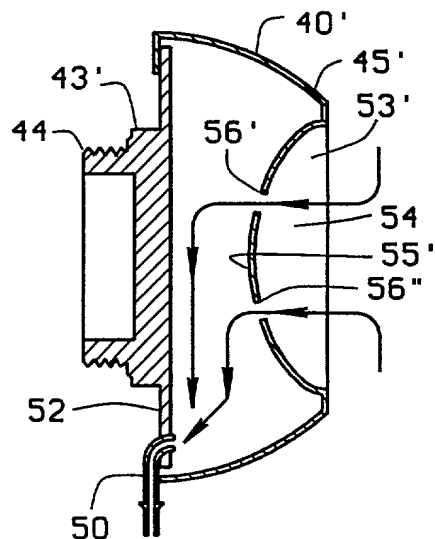


FIG. 8

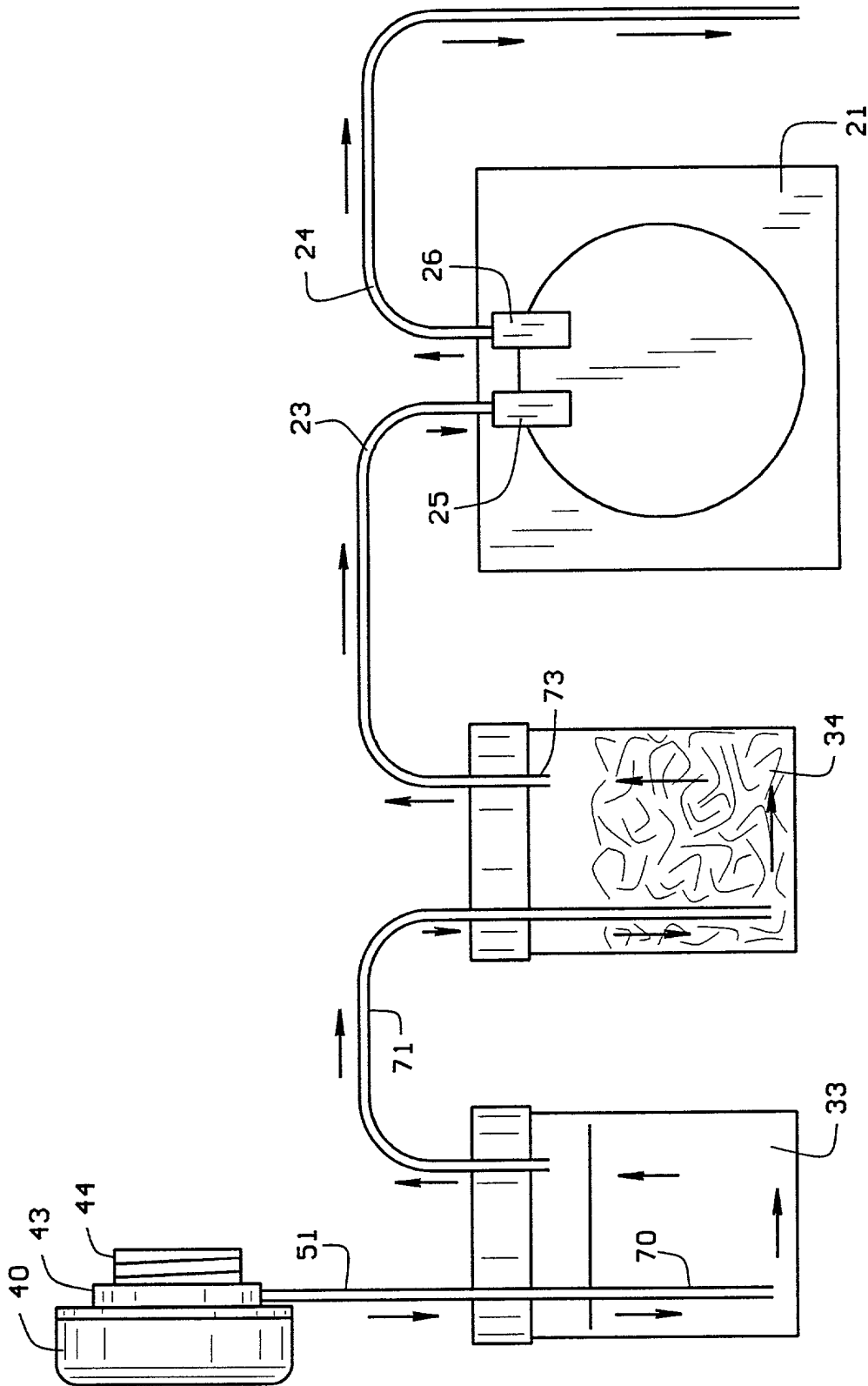


FIG. 9

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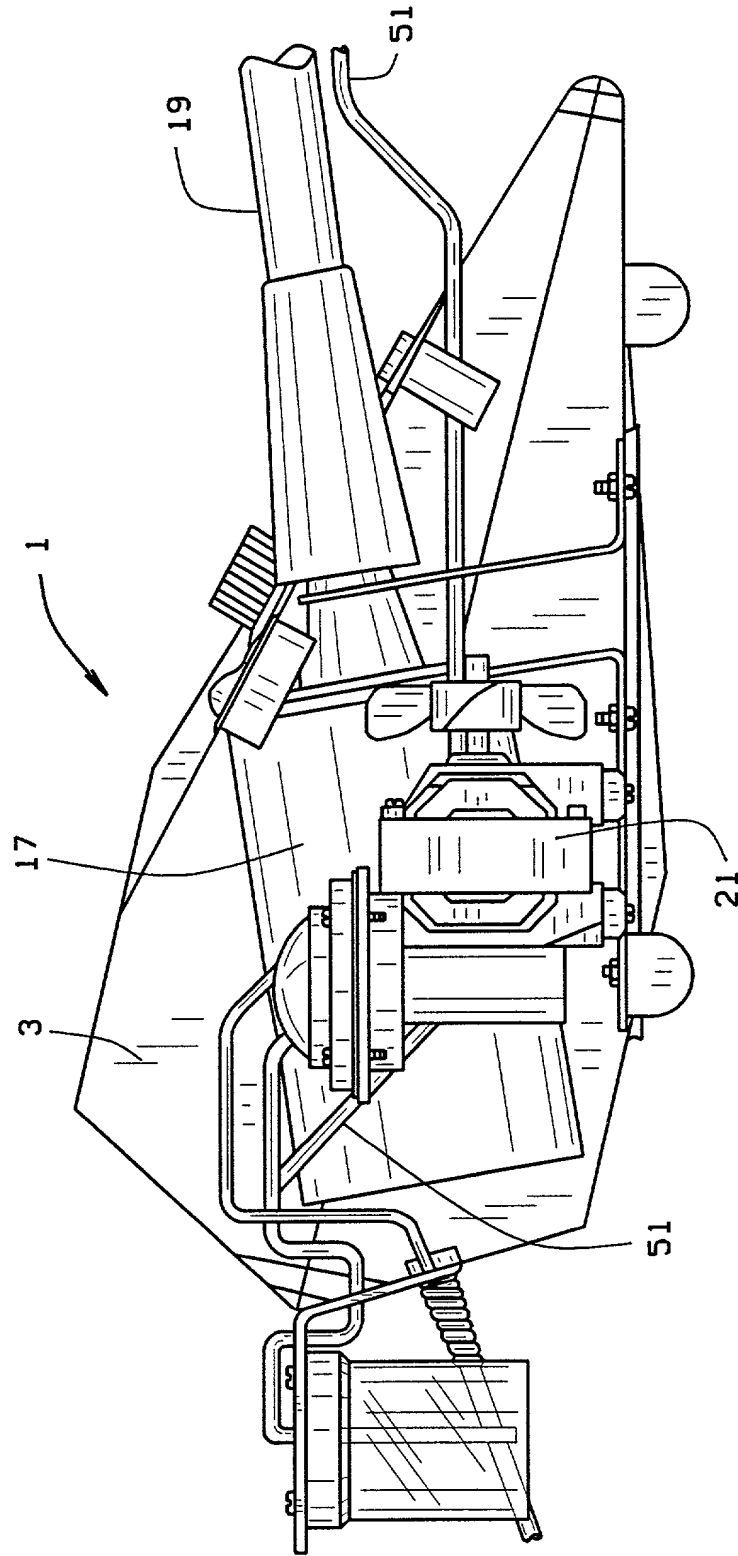


FIG. 10

COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,
CONTINUATION, OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is for an original application.

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (*if only one name is listed below*) or an original, first and joint inventor (*if plural names are listed below*) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

MASSAGE APPARATUS

SPECIFICATION IDENTIFICATION

The specification is attached hereto.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56, and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent.

697692769

POWER OF ATTORNEY

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Lionel L. Lucchesi	Registration Number 25891
Edward A. Boecheinstein	Registration Number 22986
Mark Books	Registration Number 40918
William G. Bruns	Registration Number 19541
William B. Cunningham	Registration Number 26155
Michael Kovac	Registration Number 22140
Martha A. Michaels	Registration Number 20453
McPherson D. Moore	Registration Number 28449
J. Joseph Muller	Registration Number 28450
J. Philip Polster	Registration Number 24739
Philip B. Polster	Registration Number 16554
Ned W. Randle	Registration Number 35989
Richard Sher	Registration Number 27282
Jonathan P. Soifer	Registration Number 34932
Gregory E. Upchurch	Registration Number 28482
Catherine W. Wall	Registration Number 42209
Frederick M. Woodruff	Registration Number 15301

I hereby appoint the practitioner(s) associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

SEND CORRESPONDENCE TO DIRECT TELEPHONE CALLS TO:

Lionel L. Lucchesi, Polster, Lieder, Woodruff & Lucchesi, 763 South New Ballas Road, St. Louis, MO 63141, 314-872-8118, Customer Number 01688

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

James V. Young

Inventor's signature

Country of Citizenship USA

Residence University City, MO

Post Office Address 7206 Princeton Place
University City, MO 63130

Date 10-19-98

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Young, James V.

Serial No.:

Filed on:

Title: MESSAGE APPARATUS

STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) and 1.27(b))--SMALL BUSINESS CONCERN

I hereby state that I am an official of the small business concern empowered to act on behalf of the concern identified below:

General Physiotherapy, Inc.
13222 Lakefront Drive, Earth City, Missouri 63045

I hereby state that the above identified small business concern qualifies as a small business concern, as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees to the United States Patent and Trademark Office under Sections 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third-party or parties controls or has the power to control both.

I hereby state that rights under contract or law have been conveyed to, and remain with, the small business concern identified above, with regard to the invention described in the specification filed herewith, with title as listed above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights in the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c), if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each such person, concern or organization having any rights in the invention is listed below:

No such person, concern, or organization exists.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small business entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed..

James v. Young
President
13222 Lakefront Drive, Earth City, Missouri 63045

Signature:  Date 10-19-98

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